

AMENDMENTS TO THE CLAIMS:

1-4. (Cancelled)

5. (Currently amended) An immunoassay method for measuring PIVKA-II in a serum or plasma test sample, comprising the steps of:

(a) contacting the serum or plasma test sample with a first immunoassay reagent comprising anti-PIVKA-II antibodies and antibodies which specifically bind to a human fibrin or a human fibrinogen; adding antibodies which specifically bind to a human fibrin related substance to an immunoassay reagent ; wherein the immunoassay reagent comprises anti-PIVKA-II antibodies;

(b) contacting the resultant sample with a second immunoassay reagent comprising labeled antibodies which bind PIVKA-II, wherein the labeled antibodies are at least one antibody selected from the group consisting of anti-human prothrombin antibody, anti-F₁ antibody to the F₁ prothrombin fragment, anti-F₂ antibody to the F₂ prothrombin fragment and anti-(F₁ + F₂) antibody to the F₁ and F₂ prothrombin fragments; and anti-PIVKA-II antibodies and antibodies which specifically bind to a human fibrin related substance to a serum or plasma test sample; contacting the resultant sample with an immunoassay reagent comprising labeled antibodies; and

(c) measuring the labeled antibodies, thereby measuring PIVKA-II in the serum or plasma test sample.

6. (Cancelled)

7. (Currently amended) The immunoassay method according to claim 5, ~~further comprises adding thrombin to the immunoassay reagent comprising labeled antibodies wherein~~ the second immunoassay reagent further comprises thrombin.

8. (Previously presented) The immunoassay method according to claim 7, wherein the thrombin is a thrombin-containing animal serum and/or a purified thrombin.

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9-10. (Cancelled)